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DIALOG(R)File 351:Derwent WPI

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Thermoplastic elastomer composition, used as molding material for preparation of e.g. automotive and domestic appliance parts, comprises polyisobutyrene block-polystyrene block copolymer and polyphenylene ether resin
Patent Assignee: KANEKA CORP (KANF)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2002226665	A	20020814	JP 200122333	A	20010130	200274	B

Priority Applications (No Type Date): JP 200122333 A 20010130
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002226665	A		8	C08L-053/00	

Abstract (Basic): JP 2002226665 A
NOVELTY - A thermoplastic elastomer composition (I) comprises: (A) a block copolymer composed of (A1) isobutyrene polymer block and (A2) an aromatic vinyl polymer block (99-50 wt.%); and (B) polyphenylene ether resin (1-50 wt.%).
USE - The thermoplastic elastomer composition (I) is useful as molding material for preparation of automotive parts, domestic appliance parts, packings, gaskets, medical instruments etc, and is also useful as wire insulating compound, sealing compound, etc.
ADVANTAGE - The thermoplastic elastomer composition (I) has improved permanent set.
pp; 8 DwgNo 0/0
Technology Focus:
TECHNOLOGY FOCUS - POLYMERS - Preferred Copolymer: The block copolymer (A) is composed of (A1) (50-95 wt.%, more preferably 70-95 wt%) and (A2) (50-5 wt.%, more preferably 30-5 wt.%). Preferred (A2) is (co)polymer of styrene and/or alpha-methylstyrene).
Preferred Properties: The Mw of (A) is 3,000-1,000,000 (preferably 5,000-500,000, and optimally 20,000-100,000).
Preferred Resin: The polyphenylene ether resin (B) is preferably composed of polyphenylene ether resin (especially poly(2,6-dimethyl-1,4-phenylene) ether resin) (50-100 wt.%) and polystyrene resin (50-0 wt.%).
Preferred Composition: The elastomer composition (I) is prepared by blending (A), (B) and optional additive(s) (e.g. plasticizer, filler, stabilizer, flame retardant, etc.) to satisfy

((A2)+(B))/((A)+(B))=10-50 wt.%, and then kneading the mixture.
Title Terms: THERMOPLASTIC; ELASTOMER; COMPOSITION; MOULD; MATERIAL; PREPARATION; AUTOMOTIVE; DOMESTIC; APPLIANCE; PART; COMPRISE; BLOCK; POLYSTYRENE; BLOCK; COPOLYMER; POLYPHENYLENE; ETHER; RESIN
Derwent Class: A13; A17; A25
International Patent Class (Main): C08L-053/00
International Patent Class (Additional): C08L-071-12; C08L-053/00
File Segment: CPI
Manual Codes (CPI/A-N): A04-C01A; A04-G05; A05-H07A; A07-A04E; A11-B01
Polymer Indexing (PS):
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